

# SUMMARY (FIGURE 1)

A device for fluorescence correlation spectroscopy,  
especially for multicolour fluorescence correlation  
5 spectroscopy in which light rays are focussed in a  
transparent medium which is located in a sample vessel (2),  
comprises a vessel holder (1) in which at least two sample  
vessels (2) with a focussing reflecting bottom (6) are  
provided, and a common cover (3) for both sample vessels  
10 (2) which is at least partly light-transmitting.

In a suitable method a plunger (4) with a light window  
facing the bottom (6) is inserted in the sample vessel (2)  
and the quantity of transparent medium is selected so that  
15 the light window of the plunger (4) is wetted by the  
medium.